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### (54) Handlebar mounting device for a bicycle display

(57) A device for mounting a bicycle display (14) to a steering member of a bicycle includes a mounting arch (26); a display coupler (30) disposed on the mounting arch (26); a first mounting section (34) disposed at a first end of the mounting arch (26) and having a first mounting surface (37); wherein the first mounting section (34) includes a first mounting opening (44) extending completely through the first mounting section (34) and intersecting the first mounting surface (37) for receiving a first fastener (48) therethrough; and a second mounting section (38) disposed at a second end of the mounting arch (26) and having a second mounting surface (40) that does not face the first mounting surface (37).

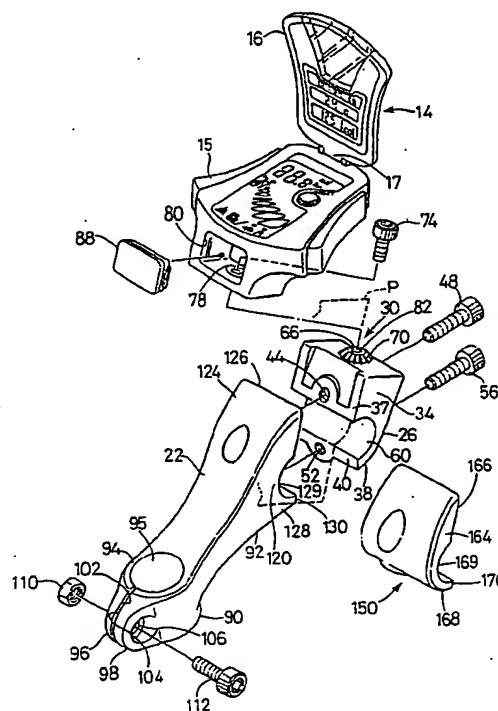


FIG. 3

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## EUROPEAN SEARCH REPORT

Application Number  
EP 00 11 0613

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 5 667 185 A (MAGLICA ANTHONY) 16 September 1997 (1997-09-16)	1-10, 17-19	B62J39/00 B62J11/00
Y	* the whole document *	11-13, 15,16	
X	US 490 750 A (E. KUHN) 31 January 1893 (1893-01-31)	1-9,11, 13,22	
Y	* the whole document *	12,15-17	
A		20,21,23	
X	US 5 413 007 A (VERNON CURTIS) 9 May 1995 (1995-05-09)	1-11,14, 15,17, 19,20,22	
Y	* the whole document *	12,13,16	
A		21,23	
X	US 4 819 217 A (HOULIHAN JOHN T) 4 April 1989 (1989-04-04)	1-10	
Y	* column 3, line 30 - column 3, line 51; figures 7,8 *	11-13, 15-17	
X	EP 0 856 459 A (SHIMANO KK) 5 August 1998 (1998-08-05)	22	TECHNICAL FIELDS SEARCHED (Int.Cl.7) B62J
Y	* the whole document *	11-13, 15-17	
A		20,21,23	
X	DE 298 19 852 U (LOEHR GMBH) 18 March 1999 (1999-03-18)	20-22	
	* the whole document *		
A	US 4 250 770 A (ROBERTSON JR WILLARD A) 17 February 1981 (1981-02-17)	23	
	* column 1, line 53 - column 1, line 62; figure *		
	-/-		
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 24 April 2003	Examiner Wochinz, R
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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# EUROPEAN SEARCH REPORT

Application Number

EP 00 11 0613

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	US 5 678 458 A (KAO YU-JU) 21 October 1997 (1997-10-21) * the whole document *	23	
A	US 5 509 328 A (LAI YUNG-HSIN) 23 April 1996 (1996-04-23) * the whole document *	23	
A	US 4 435 983 A (SHIMANO KEIZO) 13 March 1984 (1984-03-13) * the whole document *	23	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
MUNICH		24 April 2003	Wochinz, R
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone  Y : particularly relevant if combined with another document of the same category  A : technological background  O : non-written disclosure  P : intermediate document</p> <p>T : theory or principle underlying the invention  E : earlier patent document, but published on, or after the filing date  D : document cited in the application  L : document cited for other reasons</p> <p>&amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1603 (3-92) (P/Ce1)



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**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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LACK OF UNITY OF INVENTION  
SHEET B

Application Number  
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-19

An apparatus (suitable) for mounting a bicycle display to a steering member of a bicycle.

2. Claims: 20-22

A bicycle computer display apparatus.

3. Claim : 23

An apparatus (suitable) for mounting a bicycle handlebar and a bicycle display to a steering member.

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
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24-04-2003

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5667185 A	16-09-1997	US 5515246 A	07-05-1996
		US 5270911 A	14-12-1993
		US 5184884 A	09-02-1993
		US 5128841 A	07-07-1992
		US 5062026 A	29-10-1991
		US 4980805 A	25-12-1990
		US 5660363 A	26-08-1997
		US 5860728 A	19-01-1999
		DK 461318 T3	17-07-1995
		EP 0461318 A1	18-12-1991
		US 5109321 A	28-04-1992
US 490750 A		NONE	
US 5413007 A	09-05-1995	NONE	
US 4819217 A	04-04-1989	FR 2636034 A1	09-03-1990
		GB 2222470 A ,B	07-03-1990
EP 0856459 A	05-08-1998	JP 10218061 A	18-08-1998
		CN 1194922 A	07-10-1998
		EP 0856459 A2	05-08-1998
		TW 398434 Y	11-07-2000
		US 6328268 B1	11-12-2001
		US 2001040204 A1	15-11-2001
DE 29819852 U	18-03-1999	DE 29819852 U1	18-03-1999
		DE 19906596 A1	18-05-2000
US 4250770 A	17-02-1981	NONE	
US 5678458 A	21-10-1997	NONE	
US 5509328 A	23-04-1996	NONE	
US 4435983 A	13-03-1984	FR 2494659 A1	28-05-1982

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82